a self-expandable stent having a collapsed delivery configuration in which the self-expandable stent is disposed between the inner sheath and the outer sheath; and

an imaging transducer coupled to a distal region of the delivery catheter,

wherein the outer sheath is adapted for removal from a portion of the inner sheath on which the stent is disposed, thereby causing the stent to self-expand to a deployed configuration.

- 49. (New) The self-expandable stent delivery system of claim 48 wherein the inner sheath further comprises a section of reduced cross-section, wherein the self-expandable stent is configured to be disposed on the section of reduced cross-section in the collapsed delivery configuration.
- 50. (New) The self-expandable stent delivery system of claim 48 further comprising a plurality of radiopaque markers disposed on the inner sheath, wherein the self-expandable stent is configured to be disposed between the radiopaque markers in the collapsed delivery configuration.
- 51. (New) The self-expandable stent delivery system of claim 50 wherein the radiopaque markers are adapted to facilitate longitudinal positioning of the self-expandable stent at an implantation site.

- 52. (New) The self-expandable stent delivery system of claim 48 wherein the imaging transducer is coupled to a distal region of the inner sheath.
- 53. (New) The self-expandable stent delivery system of claim 48 wherein the imaging transducer is chosen from the group consisting of intravascular ultrasound transducers, forward-looking intravascular ultrasound transducers, radiallooking intravascular ultrasound transducers, and combinations thereof.
- 54. (New) The self-expandable stent delivery system of claim 48 wherein the self-expandable stent comprises a curvature in the deployed configuration.
- 55. (New) The self-expandable stent delivery system of claim 54 wherein the imaging transducer is adapted to facilitate radial alignment of the curvature of the self-expandable stent with an internal curvature at an implantation site.
- 56. (New) The self-expandable stent delivery system of claim 55 wherein the implantation site is situated within a patient's internal carotid artery.
- 57. (New) The self-expandable stent delivery system of claim 54 wherein the curvature is chosen from the group consisting of custom-formed curvature, statically chosen

curvature, pre-manufactured curvature, and combinations thereof.

58. (New) The self-expandable stent delivery system of claim 48 further comprising a fluoroscope in communication with the delivery catheter.

and A

- 59. (New) The self-expandable stent delivery system of claim 48 further comprising an imaging system coupled to the imaging transducer.
- 60. (New) The self-expandable stent delivery system of claim 48 wherein the inner sheath further comprises a guide wire lumen.

I harchy Certify that this Correspondence is being Coposited with the U.S. Fostal Service as First Class Mail in an Envolope

Addressed to:
HON. COMMISSIONER FOR PATENTS,
Washington, D.C. 20231 on:

70/1/11

Matt Caretto

11/1/02

Date of Signature

Respectfully submitted,

Douglas A. Oguss Reg. No. 48,469

Agent for Applicants

FISH & NEAVE

Customer No. 1473

1251 Avenue of the Americas

New York, New York 10020-1104

Tel.: (650) 617-4000

Fax: (650) 617-4090